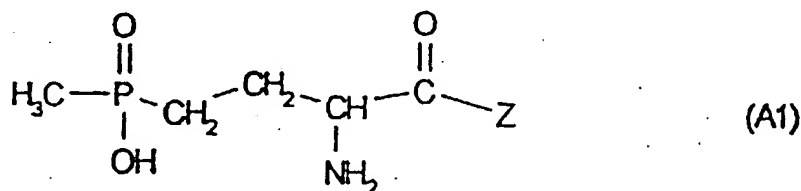


21. A method for controlling harmful plants in sugar beet crops which comprises applying to the crops, seeds, plants, plant organs or area under cultivation a synergistically effective amount of a combination of

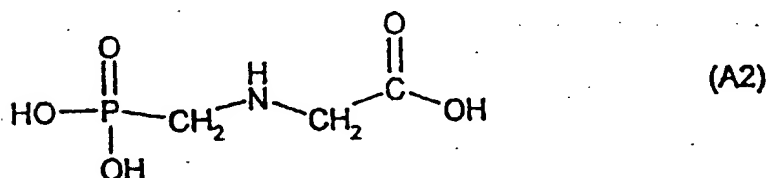
A) one or more broad-spectrum herbicide selected from the group consisting of

A1) compounds of the formula (A1)



in which Z is a radical of the formula -OH or a peptide residue of the formula -NHCH(CH<sub>3</sub>)CONHCH(CH<sub>3</sub>)COOH or -NHCH(CH<sub>3</sub>)CONHCH[CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>]COOH, or its esters or salts, or other phosphinothricin derivatives,

A2) compounds of the formula (A2) or their esters or salts,



A3) imidazolinones or their salts

and

B) one or more herbicidal compounds selected from the group consisting of

- h<sub>1</sub> h<sub>2</sub> x<sub>1</sub> fop - P  
→
- B1) ethofumesate, chloridazon, triflusaluron or its esters, or  
metamitron,
- B2) desmedipham, phenmedipham, quinmerac, clopyralid or salts of  
these compounds,
- B3) quizalofop-P, quizalofop, fenoxaprop-P, fenoxaprop, fluazifop-  
P, fluazifop, haloxyfop, haloxy-P, cyhalofop, the salts or esters  
of the last-mentioned nine compounds, clodinafop or its esters,  
or propaquizafop, and
- B4) sethoxydim, cycloxydim or clethodim

and, optionally, a safener

whereby, the sugar beet crops tolerate the broad spectrum herbicides (A) and the  
herbicidal compounds (B) with the exception of combinations wherein

- B1
- a) compound (A1) is in combination with the compound propaquizafop,  
b) compound (A2) is in combination with the compound propaquizafop,  
clodinafop or its esters, triflusaluron or its esters, metamitron,  
chloridazon or clopyralid or its salts.

22. The method as claimed in claim 21, wherein the broad spectrum herbicide is  
glufosinate-ammonium.

23. The method as claimed in claim 21, wherein the broad spectrum herbicide is  
glyphosate-isopropyl ammonium.

24. The method as claimed in claim 21, wherein herbicidal compounds (B) are  
selected from the group consisting of

- B1) ethofumesate,

- B2) desmedipham, phenmedipham, quinmerac or their salts,
- B3) fenoxaprop-P, fenoxaprop, fluazifop-P, fluazifop, haloxyfop, haloxyfop-P, cyhalofop, or the salts or esters of the last-mentioned seven compounds, and
- B4) sethoxydim, cycloxydim or clethodim.

25. The method as claimed in claim 21, wherein the combination further comprises active ingredients used in crop protection.

26. The method as claimed in claim 21, wherein the combinations are applied jointly with auxiliaries conventionally used in crop protection and/or formulation auxiliaries.

27. The method according to claim 21, wherein the combination is applied pre-emergently and the compounds comprising the combination are applied jointly or separately.

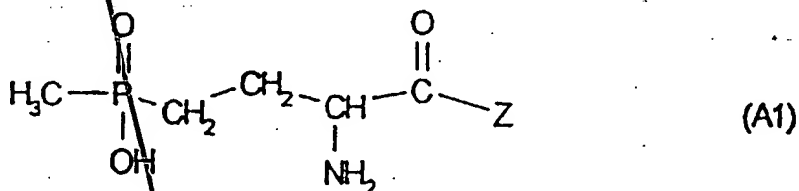
28. The method according to claim 21, wherein the combination is applied post-emergently. The compounds comprising the combination are applied jointly or separately.

29. The method according to claim 21, wherein the combination is applied both pre-emergently and post-emergently.

30. A herbicidal composition which comprises a combination comprising

A) one or more broad-spectrum herbicide selected from the group consisting of

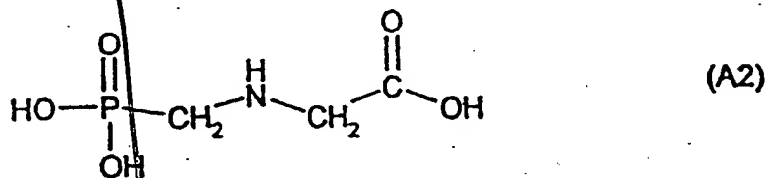
A1) compounds of the formula (A1)



in which Z is a radical of the formula -OH or a peptide residue of the formula -NHCH(CH<sub>3</sub>)CONHCH(CH<sub>3</sub>)COOH or

$\text{-NHCH}(\text{CH}_3)\text{CONHCH}[\text{CH}_2\text{CH}(\text{CH}_3)_2]\text{COOH}$ , or its esters or salts, or  
other phosphinothricin derivatives,

A2) compounds of the formula (A2) or their esters and salts,



A3) imidazolinones or their salts;

and

B) one or more herbicidal compounds selected from the group consisting of

B1') ethofumesate, chloridazon, triflusulfuron or metamitron,

B2') desmedipham, phenmedipham, quinmerac, or clopralid,

B3') quizalofop-P, fenoxaprop-P, fluazifop-P, haloxyfop, haloxyfop-P, and cyhalofop, or the salts or esters of these compounds and

B4') sethoxydim, cycloxydim or clethodim

and, optionally, additives and/or formulation aids conventionally used in crop protection  
with the exception of herbicidal compositions wherein

compound (A2) in combination with the compound triflusulfuron or its esters,  
metamitron, chloridazon or chlopyralid or its salts.

31. A herbicidal composition according to claim 30, wherein the herbicidal  
compound (B) is selected from the group consisting of

B1') ethofumesate,

B2') desmedipham, phenmedipham, or quinmerac,

B3') fenoxaprop-P, fluazifop-P, haloxyfop, haloxyfop-P, cyhalofop, or the salts  
or esters of these compounds, and

B4') sethoxydim, cycloxydim or clethodim.

32. A herbicidal composition which comprises a combination comprising

A) glufosinate-ammonium

and

B) at least one herbicidal compound (B) which is selected from the group  
consisting of

B1') ethofumesate, chloridazon, triflusaluron or its esters, or  
metamitron,

B2') desmedipham, phenmedipham, quinmerac, clopyralid or the  
salts of these compounds,

B3') fenoxaprop-P, fluazifop-P, haloxyfop, haloxyfop-P, cyhalofop,  
or the esters or salts of these compounds

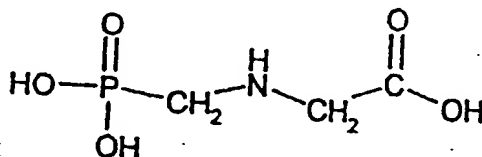
B4') sethoxydim, cycloxydim or clethodim

and, optionally, additives and/or formulation aids conventionally used in crop  
protection.

33. A herbicidal composition which comprises a composition  
comprising a combination comprising

A) at least one broad-spectrum herbicide compound selected from the group  
consisting of

A2) compounds of the formula A2) or their esters or salts,



(A2)

and

- B) at least one herbicidal compound selected from the group consisting of

B1') ethofumesate or chloridazon, and

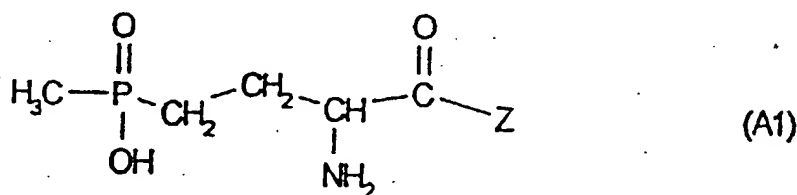
B2') desmedipham, phenmedipham, quinmerac, or the salts of these compounds

and, optionally, additives and/or formulation aids conventionally used in crop protection.

34. A herbicidal composition which comprises a composition comprising a combination comprising

- A) at least one broad spectrum herbicide compound selected from the group consisting of

A1) compounds of the formula (A1)



in which Z is a radical of the formula -OH or a peptide residue of the formula -NHCH(CH<sub>3</sub>)CONHCH(CH<sub>3</sub>)COOH or -NHCH(CH<sub>3</sub>)CONHCH[CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>]COOH, or its esters or salts, or other phosphinothricin derivatives,

A3) imidazolinones or their salts; and

- B) at least one herbicidal compound selected from the group consisting of

- B1) ethofumesate, chloridazon, triflusaluron or its esters, or  
metamitron, or
- B2) desmedipham, phenmedipham, quinmerac, clopyralid or salts of  
these compounds,
- B3) quizalofop-P, quizalofop, fenoxaprop-P, fenoxaprop, fluazifop-  
P, fluazifop, haloxyfop, haloxyfop-P, cyhalofop, the salts or  
esters of the last-mentioned nine compounds, clodinafop or its  
esters, propaquizafop, and
- B4) sethoxydim, cycloxydim or clethodim

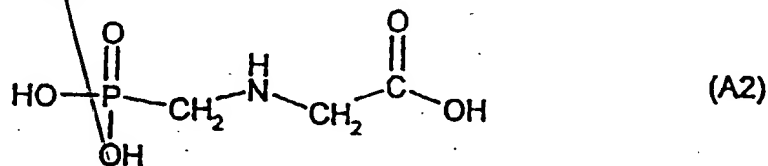
and, optionally, additives and/or formulation aids conventionally used in crop  
protection,

with the exception of compound (A1) in combination with propaquizafop or clodinafop  
or its esters.

35. A herbicidal composition which comprises a composition which  
comprises a combination comprising

- A) at least one broad spectrum herbicide compound selected from the group  
consisting of

A2) compounds of the formula (A2) and their esters and salts,



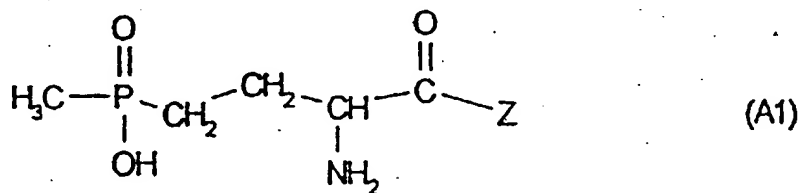
- B) at least one herbicidal compound selected from the group  
consisting of quizalofop-P, quizalofop, fenoxaprop-P, fenoxaprop,  
fluazifop-P, fluzifop, sethoxydim and clethodim

and, optionally, additives and/or formulation aids conventionally used in crop protection.

36. A method for controlling harmful plants in sugar beet crops which comprises applying to the crops, seeds, plants, plant organs or area under cultivation asynergistically effective amount of a combination comprising

- A) at least one broad spectrum herbicide compound selected from the group consisting of

- A1) compounds of the formula (A1)



in which Z is a radical of the formula -OH or a peptide residue of the formula -NHCH(CH<sub>3</sub>)CONHCH(CH<sub>3</sub>)COOH or -NHCH(CH<sub>3</sub>)CONHCH[CH<sub>2</sub>CH(CH<sub>3</sub>)<sub>2</sub>]COOH, or its esters or salts, or other phosphinothricin derivatives,

- A3) imidazolinones or their salts;

and

- B) at least one herbicidal compound selected from the group consisting of

- B1) ethofumesate, chloridazon, triflusaluron or its esters, or metamiltron, or

- B2) desmedipham, phenmedipham, quinmerac, clopyralid or the salts of these compounds,



B3) quizalofop-P, quizalofop, fenoxaprop-P, fenoxaprop, fluazifop-P, fluazifop, haloxyfop, haloxyfop-P, cyhalofop, the salts or esters of the last-mentioned nine compounds, clodinafop or its esters, propaquizafop, and

B4) sethoxydim, cycloxydim or clethodim

and, optionally, a safener,

whereby the sugar beet crops tolerate the broad-spectrum herbicide (A) and the herbicidal compounds (B), with the exception of

compound (A1) in combination with propaquizafop or clodinafop or its esters.

37. The method as claimed in claim 36 wherein the broad-spectrum herbicide is glufosinate-ammonium.

38. The method as claimed in claim 36 wherein the herbicidal compounds (B) are selected from the group consisting of

B1) ethofumesate,

B2) desmedipham, phenmedipham, quinmerac, or their salts,

B3) fenoxaprop-P, fenoxaprop, fluazifop-P, fluazifop, haloxyfop, haloxyfop-P, cyhalofop, or the salts or esters of these last-mentioned seven compounds, and

B4) sethoxydim, cycloxydim or clethodim.

39. The method as claimed in claim 36 wherein the combination further comprises active ingredients used in crop protection.

40. The method as claimed in claim 36 wherein the combination is applied jointly with auxiliaries conventionally used in crop protection and/or formulation auxiliaries.

41. The method according to claim 36, wherein the combination is applied pre-

emergently and the compounds comprising the combination are applied jointly or separately.

42. The method according to claim 36, wherein the combination is applied post-emergently and the compounds comprising the combination are applied jointly or separately.

43. The method according to claim 36 wherein the combination is applied both pre-emergently and post-emergently.

44. A method for controlling harmful plants in sugar beet crops which comprises applying to the crops, seeds, plants, plant organs or area under cultivation a herbicidal composition according to claim 32, whereby the sugar beet crops tolerate the broad-spectrum herbicide (A) and the herbicidal compounds (B).

45. A method for controlling harmful plants in sugar beet crops which comprise applying to the crops, seeds, plants, plant organs, or area under cultivation a herbicidal composition according to claim 33, whereby the sugar beet crops tolerate the broad-spectrum herbicide (A) and the herbicidal compounds (B).

46. A method for controlling harmful plants in sugar beet crops which comprises applying to the crops, seeds, plants, plant organs or area under cultivation a herbicidal composition according to claim 34, whereby the sugar beet crops tolerate the broad-spectrum herbicide (A) and the herbicidal compounds (B).

47. A method for controlling harmful plants in sugar beet crops, which comprises applying to the crops, seeds, plant organs or area under cultivation a herbicidal composition according to claim 35, whereby the sugar beet crops tolerate the broad-spectrum herbicide (A) and the herbicidal compounds (B).